

Title (en)

SYSTEM AND METHOD FOR ROUTING DATA BETWEEN DIFFERENT TYPES OF NODES IN A WIRELESS NETWORK

Title (de)

SYSTEM UND VERFAHREN ZUM ROUTEN VON DATEN ZWISCHEN VERSCHIEDENEN ARTEN VON KNOTEN IN EINEM DRAHTLOSEN NETZWERK

Title (fr)

SYSTEME ET PROCEDE POUR L'ACHEMINEMENT DE DONNEES ENTRE DIFFERENTS TYPES DE NOEUDS DANS UN RESEAU SANS FIL

Publication

EP 1790184 B1 20141119 (EN)

Application

EP 05794035 A 20050907

Priority

- US 2005031651 W 20050907
- US 60772904 P 20040907
- US 61184504 P 20040922

Abstract (en)

[origin: WO2006029126A2] A method and system for routing data in a wireless network (400) that enables all nodes (106, 402, 404, 406, 408) to find routes to each other even if the nodes (106, 402, 404, 406, 408) are non-meshed which are incapable of operating as a router to route packets received from other nodes (106, 402, 404, 406, 408), and for associating and reassociating the non-meshed and meshed nodes with other meshed nodes (106, 402, 404, 406, 408). The non-meshed nodes (STA 13 - STA 15) request association with one of the meshed nodes (AP5) which are capable of performing packet routing, to request that the meshed node (AP5) with which the non-meshed node (STA 13) is associating operate as a proxy node to route packets between the associated non-meshed node (STA 13) and other meshed or non-meshed nodes (106, 402, 404, 406, 408). Some of the meshed nodes (106) further operate as intelligent access points (106) to provide the non-meshed nodes (STA 13- STA 15) and other meshed nodes (402) with access to other networks, such as the Internet (402), as well as to effect the association and reassociation of the non-meshed and meshed nodes (106, 402, 404, 406, 408).

IPC 8 full level

H04W 40/24 (2009.01); **H04W 40/22** (2009.01); **H04W 40/28** (2009.01); **H04W 40/30** (2009.01); **H04W 40/36** (2009.01); **H04W 84/18** (2009.01); **H04W 84/22** (2009.01); **H04W 88/08** (2009.01); **H04W 88/18** (2009.01)

CPC (source: EP KR US)

H04L 45/02 (2013.01 - US); **H04W 40/22** (2013.01 - EP US); **H04W 40/24** (2013.01 - EP US); **H04W 40/28** (2013.01 - EP KR US); **H04W 40/30** (2013.01 - EP KR US); **H04W 40/36** (2013.01 - EP KR US); **H04W 84/10** (2013.01 - KR); **H04W 84/18** (2013.01 - EP US); **H04W 84/22** (2013.01 - EP US); **H04W 88/08** (2013.01 - EP US); **H04W 88/182** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2006029126 A2 20060316; **WO 2006029126 A3 20060803**; DE 112005002142 B4 20171214; DE 112005002142 B8 20180301; DE 112005002142 T5 20070816; EP 1790184 A2 20070530; EP 1790184 A4 20120118; EP 1790184 B1 20141119; JP 2008512901 A 20080424; JP 4532554 B2 20100825; KR 100898680 B1 20090522; KR 100898681 B1 20090522; KR 20070088616 A 20070829; KR 20070088617 A 20070829; US 2006098611 A1 20060511; US 2006098612 A1 20060511; US 7251238 B2 20070731; US 7382759 B2 20080603; WO 2006029131 A2 20060316; WO 2006029131 A3 20070222

DOCDB simple family (application)

US 2005031643 W 20050907; DE 112005002142 T 20050907; EP 05794035 A 20050907; JP 2007530467 A 20050907; KR 20077008092 A 20070409; KR 20077008093 A 20070409; US 2005031651 W 20050907; US 22113505 A 20050907; US 22113605 A 20050907